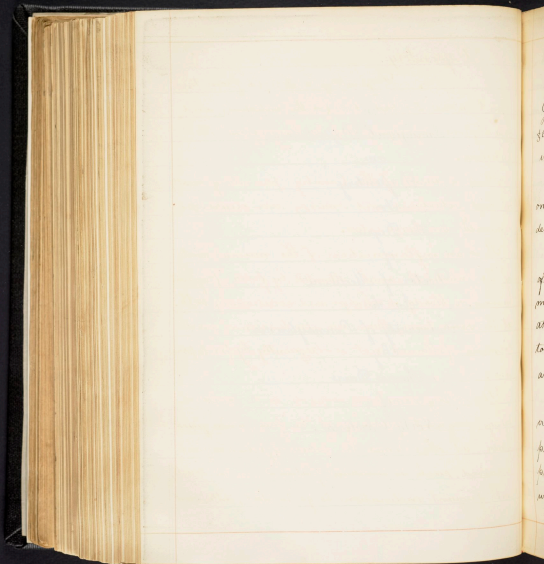


An  
Inaugural Dissertation  
on  
Dysentery  
For  
The Degree  
of  
Doctor of Medicine  
In the  
University of Pennsylvania  
By  
Thomas Davis  
of  
North Carolina.



## Dysentery

Dysentery is derived from the Greek words *dis* bad, *enteros* the intestine, and *gao* to flow, signifying bad discharges from the intestine.

It is a disease of the Country, prevailing mostly on high situations, and scarcely ever occurs epidemically, in large cities.

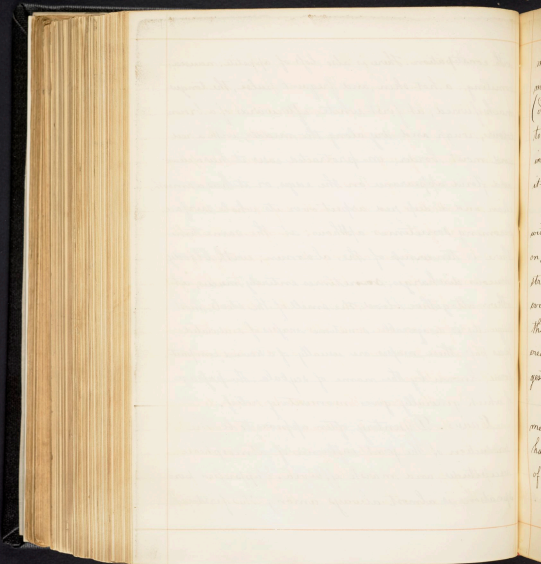
It is an inflammation of the mucous coat of the intestinal canal, attended by fever, frequent mucous or bloody discharges, and occasionally both; at the same time, there are also tenesmus and tormina, followed not unfrequently by prolapsum ani.

Dysentery sometimes comes on with cold shiverings, frequent flushings of the face, and a quick pulse; at other times, the local affection is first perceived, such as unusual flatulence in the bowels, with frequent inclination to go to stool, attended

*[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]*

with constipation. There is also loss of appetite; nausea; vomiting; a hot skin, and frequent pulse, the tongue much furrowed, at first white, afterwards of a brown colour, rough and dry along the middle, with a red and moist border; in protracted cases it has a clean and florid appearance on the edges, or it has a smooth, clean, and a deep red aspect over its whole surface, becoming sometimes aphthous: at the same time there is tenderness of the abdomen, with bloody, mucous discharges, ~~sometimes~~ entirely mucus, at others altogether blood; the smell of the stools, most frequently is disagreeable: sometimes masses of indurated feces pass, these masses are usually of a round, compact form, known by the name of scybala: the passage of which generally gives momentary relief.

Cause. Dysentery often appears to be the production of the joint influence of atmospheric vicissitudes, and marsh effluvia. Suppressed perspiration is almost always among the first



morbid phenomena of this disease; likewise derangements of the Liver and Skin are always present. (Says Dr. Johnson). I am induced to believe this to be the fact, from having found it to be the case in two attacks of my own person, besides witnessing it in a number of others.

I was attacked on the eighth day of June last with several of the above named symptoms, brought on, as I believed from having ate a quantity of strawberries a few hours before; one of the strongest evidences I have in support of this opinion, is that for five or six days after my attack, I discovered the seeds to be passing in a solid and undigested condition.

In this case there was previous derangement of the Stomach, which may be said to have been the predisposing cause, the seeds spoken of, acting probably as the exciting cause.

There are other causes of this disease, such

*[Faint, illegible handwriting on lined paper]*

at  
Col  
is  
sur  
the  
ex  
and  
han  
pre  
wice  
the  
dis  
or  
are  
it  
str

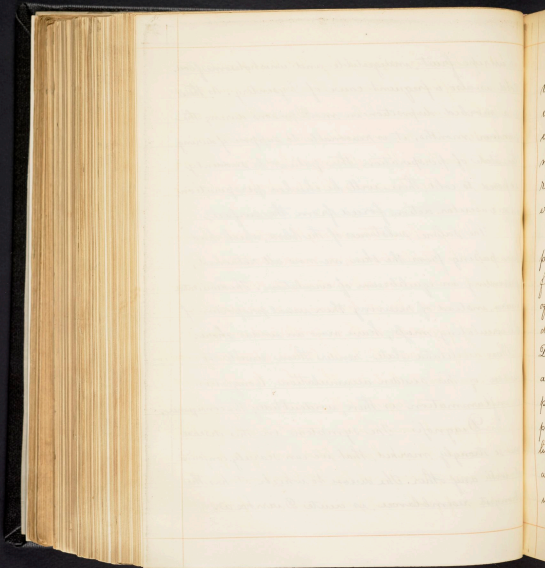


as unripe fruit, indigestible and unwholesome food. Cold is also a frequent cause of Dysentery: As there is a morbid disposition in most persons during the summer months, it is reasonable to suppose if during the state of perspiration, the patient be suddenly exposed to cold, there will be checked perspiration, and vascular action forced from the surfaces.

The saline substances of the blood, which had been passing from the skin, are now all retained, preventing an equilibrium of circulation. The debilitated viscera, instead of receiving their usual proportion of the circulating mass, have now an undue share.

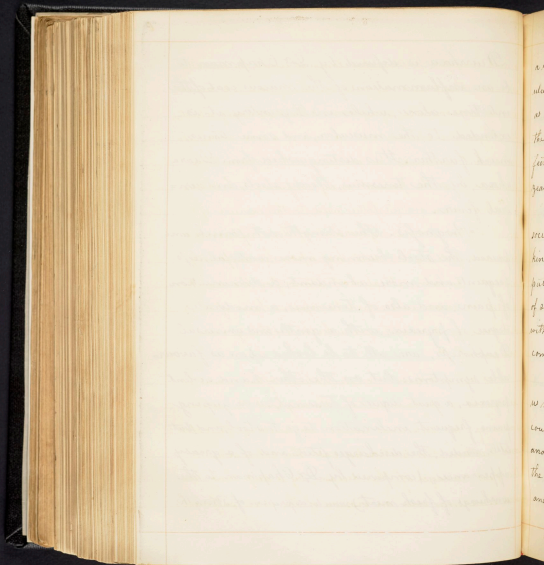
Their debilitated state, render them unable to dispose of this sudden accumulation. Congestion or inflammation is then, undoubtedly the consequence.

**Diagnosis.** The symptoms in this disease are so strongly marked, that we can scarcely confound it with any other. The disease to which it has the strongest resemblance, is acute Diarrhoea.



Diarrhoea is defined by Dr. Chapman to be an inflammation of the mucous coat of the intestine alone, while in Dysentery it is extended to the muscular, and some times much further. It is distinguished from Diarrhoea, by the tenesmus, bloody stools, and general fever. — *pusulent discharges?*

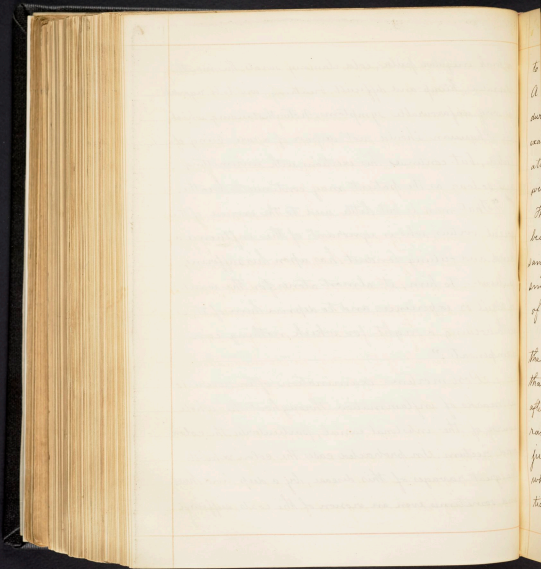
Prognosis. The strength not much impaired, the stools becoming more natural, less frequent and more abundant, a diminution of pain, and also of tenesmus, a moderate degree of pyrexia, with a gentle and universal Diaphoresis, are all to be looked upon as favourable symptoms: but on the other hand, violent pyrexia, a great degree of tenesmus, severe griping pains, frequent inclination to go to stool, and but little voided, the discharges fetid and of a greasy appearance, (compared by Dr. Chapman to the washings of fresh meat.) much depression of strength.



a weak irregular pulse, cold clammy sweats, the mouth ulcerated, hiccup and difficult breathing, are to be regarded as very unfavourable symptoms. Notwithstanding which, the Physician should not despair of a cure being effected; but continue his exertions, with unremitting zeal so long as the patient may continue to breathe.

"That man is but little used to the exercise of the social virtues, who is ignorant of the influence a kind and feeling conduct has upon his suffering patient - to him, it almost atones for the want of skill or experience; and to deprive him of it, is withholding a right for which nothing can compensate."

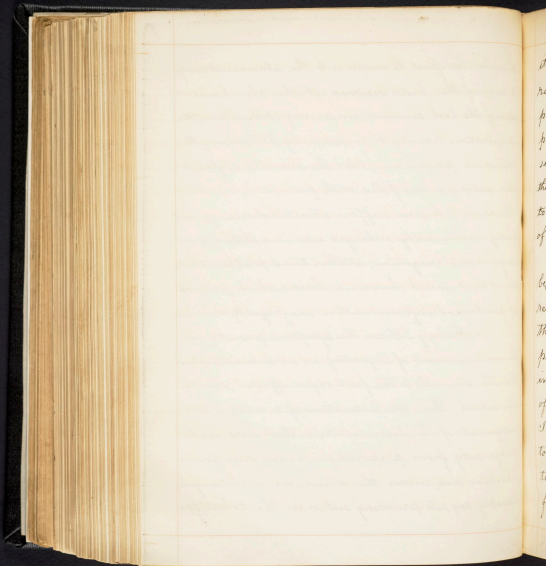
Post-mortem examinations often reveal to us marks of inflammation throughout the whole course of the intestinal canal, particularly the colon and rectum. In protracted cases the colon exhibits the great ravages of this disease, by a deep livid hue, and sometimes even an erosion of the coats, sufficient



to suffer the faces to escape into the abdominal cavity. A case of this kind occurred at the almshouse during the last summer under my observation, the examination having been made by Dr Jackson, the attending physician. (Also the mesenteric glands were enlarged and filled with pus.

The liver likewise suffers structural derangement, being commonly enlarged and in a state of great sanguineous congestion, at other times preternaturally small and much hardened; besides which, marks of peritoneal inflammation are frequently discovered.

Pathology. From the symptoms presented in the commencement of Dysentery, we are induced to believe that the stomach is the first organ affected; shortly after which, there are indications of a morbid derangement of the lower intestines; But were we to judge only from preparations, taken from persons who have died under this disease, we would unquestionably say, its primary seat is in the colon; for





It is here we find the mark of its most extensive ravages. There is at this time a preparation in Dr Horns possession, which illustrates incontestably the latter position. It is said by Dr Johnson, the primary seat of the disease in question, is the liver; How far this assertion is correct, I am not at present prepared to say, but am willing to admit that a derangement of this viscus may sometimes give rise to it.

Treatment. In Dysentery our first object should be to reduce inflammation, the second will be to remove irritations and spasm, the third to open the bowels, and to restore perspiration. It is the practice with some, to commence the cure by giving an Emetic; But, highly as I prize this class of medicines, I do not think they will answer at all times. In miasmatic countries, where there are evident symptoms of an accumulation of bile, we might venture to give an emetic, but, still even here, I would first use the lancet; for the following reasons;

For  
so  
cep  
n  
m  
of  
w  
m  
at  
is  
by  
w  
cal  
the  
ope  
m  
m  
af  
the

The early drawing of blood, has a tendency not only to arrest inflammation, but also to arouse the susceptibility of the patient to the full action of other remedies. To aid blood letting, I know of no auxiliary more serviceable than mild cathartics. Of this class of medicines, I prefer calomel to all others; especially where there are symptoms manifesting a total absence of bile. To derive the full effects of this medicine, it should be given in small but repeated doses. It is recommended by Dr Chapman in combination, by giving one grain of calomel, half a grain of opium, with two or three grains of ipecacuanha; here the calomel is known to act on the secretions of the liver, the ipecacuanha on the functions of the skin, and the opium to allay the inordinate irritability in the intestinal canal. Fomentations applied to the abdomen, aided by mild injections, are found to assist the above mentioned remedies, in the reduction of inflammation. The warm bath may be

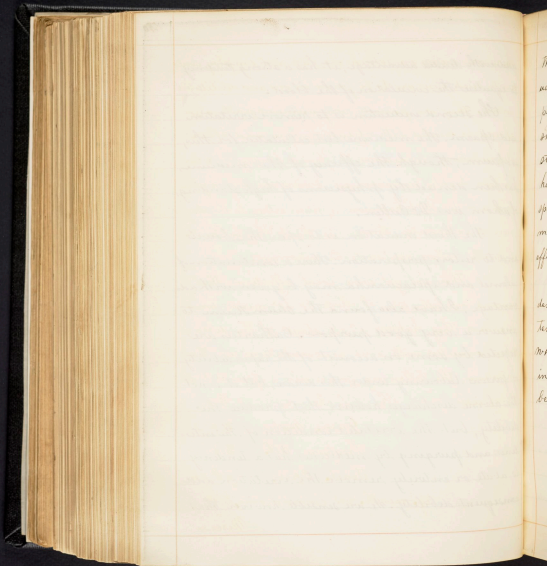
the first of these is a study of the  
the second is a study of the  
the third is a study of the  
the fourth is a study of the  
the fifth is a study of the  
the sixth is a study of the  
the seventh is a study of the  
the eighth is a study of the  
the ninth is a study of the  
the tenth is a study of the  
the eleventh is a study of the  
the twelfth is a study of the  
the thirteenth is a study of the  
the fourteenth is a study of the  
the fifteenth is a study of the  
the sixteenth is a study of the  
the seventeenth is a study of the  
the eighteenth is a study of the  
the nineteenth is a study of the  
the twentieth is a study of the  
the twenty-first is a study of the  
the twenty-second is a study of the  
the twenty-third is a study of the  
the twenty-fourth is a study of the  
the twenty-fifth is a study of the  
the twenty-sixth is a study of the  
the twenty-seventh is a study of the  
the twenty-eighth is a study of the  
the twenty-ninth is a study of the  
the thirtieth is a study of the

an  
to  
  
an  
is a  
has  
of a  
  
an  
cal  
vac  
an  
reg  
of  
the  
did  
tin  
to  
co

used with decided advantage, it has a strong tendency to equalise the circulation of the blood.

The second indication is to remove irritation and spasm. The medicine best calculated for this, is opium, though the efficacy of this medicine, has been denied by physicians of high standing, of whom was Dr. Cullen.

The third indication is to open the bowels and to restore perspiration. Here a combination of calomel and ipecacuanha may be given with advantage. I have also found the *Olium Ricini* to answer a very good purpose. Cathartics are rejected by some, on account of the rapid debility of persons labouring under this disease, but it is not the alvine discharges, however, that produce this debility, but the irritated condition of the intestines; and purging by medicines has a tendency to abate or entirely remove the irritation and consequent debility. We are sensible however that



There are cases, in which we can not employ evac-  
uants; such cases are to be found in old and debilitated  
persons. They are generally very unmanageable, and  
should be treated with opium, wine, and other  
stimulating medicines. The flannel bandage or roller,  
has been highly recommended; blisters are also highly  
spoken of by Dr. Chapman, applied either to the abdo-  
men or extremities, though he thinks they act more  
effectually, when applied to the abdomen.

There are yet some local affections, that  
demand our attention, I allude to tormina and  
tenesmus. They happen at all stages of the disease:  
when connected with foul accumulations in the  
intestines, the following formula is found to be  
beneficial —

Rx. Ol. Ricini, — " — ℥. i.

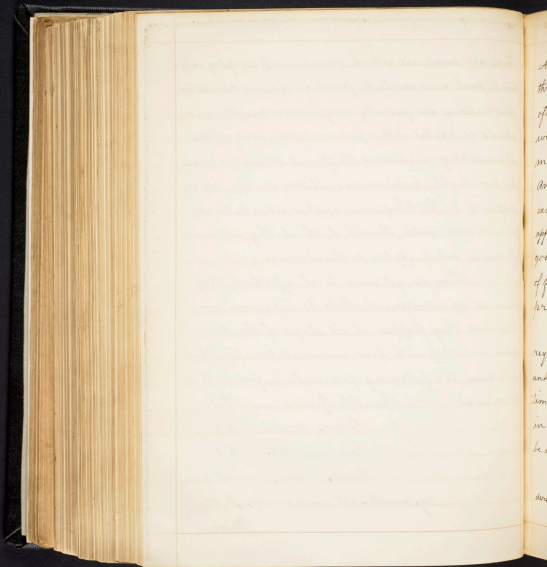
Gum. Arabic, — " — ℥. i.

Sacchari, Alb. — " — ℥. i.

Tinct. Opii, — " — qtt. xli.

Aq. menth. vel cinnamomi, ℥. ii.

Misce.





A table spoonful of this, may be given every two or three hours. A simple injection of laudanum has often relieved both symptoms, or what answers equally well is a pill of opium, introduced an inch or more up the rectum, and there suffered to remain. An injection of melted butter perfectly fresh, is also an excellent remedy. In such cases I have known the application of leeches to the rectum to answer a very good purpose. We should not neglect the application of fomentations to the stomach and bowels, they promote diaphoresis, besides which, they relieve spasm.

When copious perspiration is demanded, it is then requisite that we should give a combination of ipecacuanha and opium (Sowers Powers). With regard to Antimonials in this disease, I am not disposed to say much in their favour, though they are said sometimes to be used with success.

If from the above treatment our patient is rendered convalescent. It will then become necessary to

*[Faint, illegible handwriting on lined paper, likely bleed-through from the reverse side.]*

gave  
a  
gru  
a to  
dies  
be d  
chan  
not  
dies

guard him against imprudence, in respect to food and exposure to cold.

This diet should be light and digestible; such as rice, gruel, barley-water, arrow root, sago, panada, tapioca, a little chicken water may be given, but meats of every description, are to be cautiously avoided. He should be directed to wear flannel next to his skin, and his chamber should be kept well ventilated, he should not expose himself to the night air, or even to cool draughts of air.



